CONTEC

DELTA I/II

Floor Grinder

Instruction Manual
Betriebsanleitung
Instructions techniques

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CONTEC GmbH
Hauptstrasse 146
57518 Alsdorf

1. EU-Declaration of Conformity

According to the Machine Directive 98/37/EC (89/392/EWG), Appendix II A

We hereby declare that the machine

Type: Floor Grinder
Name: Delta I and Delta II

conforms with the following standards which have been valid at the date written below:

EC-Directive 98/37/EC (89/392/EEC), in its current wording
EC-Directive 89/336/EEC, in its current wording
EC-Directive 73/23/EWG (89/392/EEC), in its current wording

List of the essential harmonised standards:

EN 12100	„Safety of machines
EN 418	„Emergency-Stop-Devices“
EN 953	„Separating safety devices“
EN 60204 Part 1	„Electric equipment of machinery, general requirements“
EN 1050	„Guiding principles for the risk judgement“

Alsdorf, 10.04.2004

(Place and date)

(Authorized signature)

J. Greb – Construction department

(Name and function of the authorized person)

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2. Technical data

	DELTA I	DELTA II	DELTA II Single speed	DELTA II-P
Grinding width	250 mm	490 mm	490 mm	490 mm
Width	45 cm	55 cm	55 cm	55 cm
Length	105 cm	105 cm	105 cm	105 cm
Hight	100 cm	100 cm	100 cm	100 cm
Weight	115 kg	175 kg	165 kg	160 kg
Hose ¢	50 mm	70 mm	70 mm	70 mm
Motor	5.5 kW	6.8 kW, 1000 U/min 8.0 kW, 2000 U/min	7.5 kW	-
Electric supply	400 V, 3 phases 480 V, 3 phases	400 V, 3 phases 480 V, 3 phases	400 V, 3 Phases 480 V, 3 phases	
Honda engine	-	-	-	11 PS
Average value of acceleration a_{hv} *	4.3 m/s^2	4.3 m/s^2	4.3 m/s^2	9.3 m/s^2
Noise level L_{wa} *	99 dB(A)	99 dB(A)	99 dB(A)	106 dB(A)
Noise level Leq *	99 dB(A)	88 dB(A)	99 dB(A)	95 dB(A)

* Data: VÜA Verein zur Überwachung technischer Anlagen e.V.

3. Application of tools

3.1 General applications

Tool **Application**	**Diamond**	**Tungsten carbide grit**
Grinding of plain floors,		
- Smooth surface	**A**	**C**
- Semi rough surface	**A**	**B**
- Rough surface	**A**	**A**
Levelling of uneven surfaces		
- Smooth surface	**A**	**A**
- Semi rough surface	**A**	**A**
- Rough surface	**B**	**A**
Levelling of Steps, corners, joints etc.	**B**	**A**
Renovation	**A**	**B**
Repair	**A**	**B**
Faults in concrete	**A**	**B**
Grinding of		
- Hard concrete	**A**	**C**
- Oily and greasy floors	**A**	**B**
- Painted floors	**A**	**A**
- Epoxy coatings	**A**	**A**
Removal of floor surfaces up to 5 mm	**A**	**C**
Removal of carpet and tile glue	**C**	**A**
Grinding of asphalt	**B**	**B**
A Suitable B Less suitable C Unsuitable		

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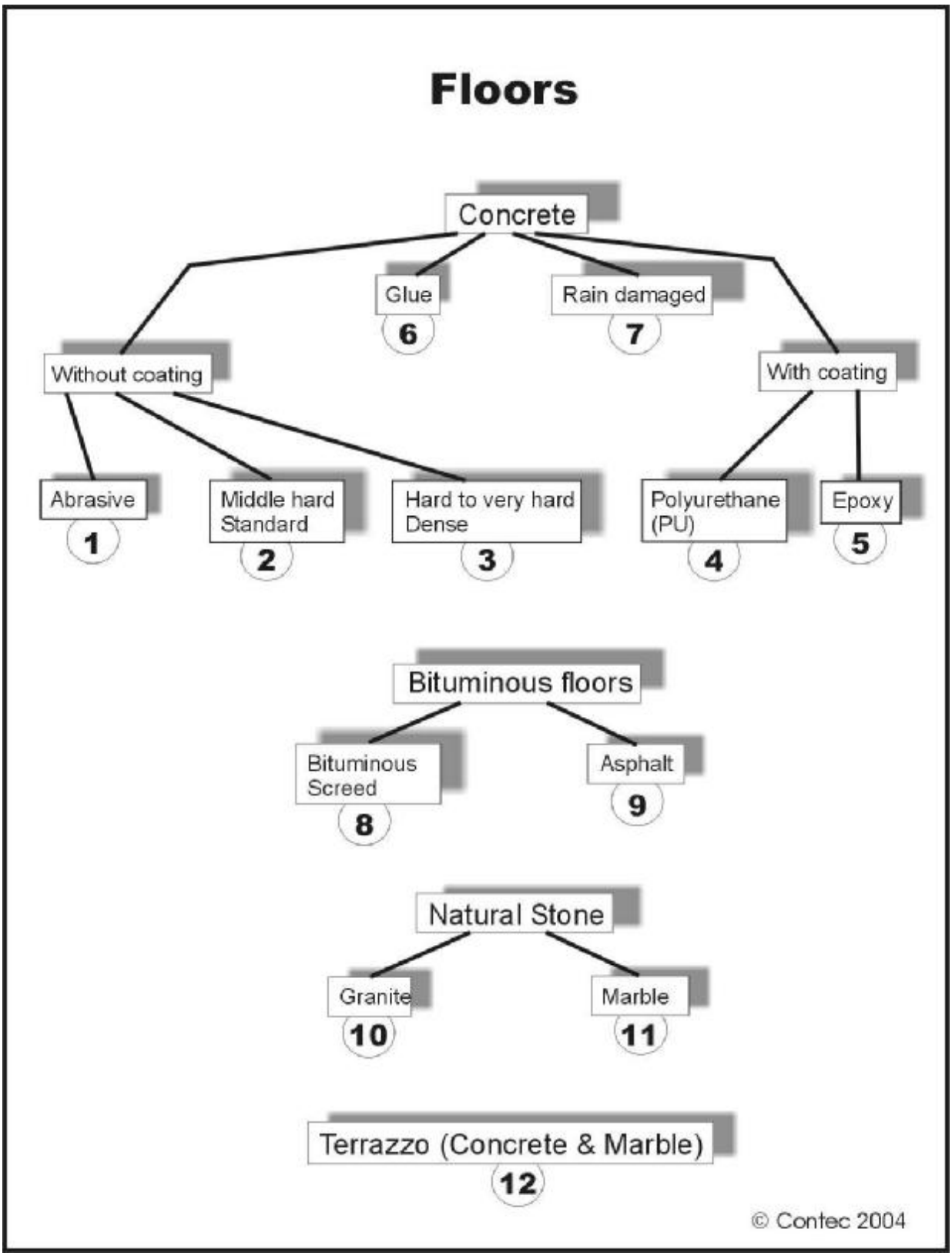
3.2 Application of diamond discs



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Correct tool for each application

Pos	First step	Next steps	Shape	Comment	Grit	Method
1	CA1		square	Hard segment and rough diamond grit size. If the floor has to be polished better star with CA2.		dry
	CA2		square	Like CA1 but finer diamond grit size.	60/80	dry
		MBC0+ to MBC4	round	Metal-bond polishing up to the required finish	16 to 500	dry
		Polishing buttons grit 800 to 3000		Polymer-bond polishing up to the required finish	800 to 5000	dry

Pos	First step	Next steps	Shape	Comment	Grit	Method
2	Cs 16		square	Soft segment and rough diamond grit size. If the floor has to be polished better star with Cs40.	16	dry
	Cs40		square	Like Cs16 but finer diamond grit size.	40	dry
		MBC2 to MBC4	round	Metal-bond polishing up to the required finish	150 to 500	dry
		Polishing buttons grit 800 to 3000		Polymer-bond polishing up to the required finish	800 to 5000	dry

Pos	First step	Next steps	Shape	Comment	Grit	Method
3	Cs16		square	Soft segment and rough diamond grit size. If the floor has to be polished better star with Cs40.	16	dry
	Cs40		square	Like Cs16 but finer diamond grit size.	40	dry
		MBC2 to MBC4	round	Metal-bond polishing up to the required finish	150 to 500	dry
		Polishing buttons grit 800 to 3000		Polymer-bond polishing up to the required finish	800 to 5000	dry

Pos	First step	Next steps	Shape	Comment	Grit	Method
4	Cs06 or Cs16		square	Removing of PU-coatings	6 or 16	dry
	PCD			High machine wear and tear		dry
	Cs16		square	Surface grinding of PU-coatings	16	dry

Pos	First step	Next steps	Shape	Comment	Grit	Method
5	Cs06 or Cs16		square	Removing of Epoxy-coatings	6 or 16	dry
	PCD			High machine wear and tear		dry
	Cs16		square	Surface grinding of Epoxy-coatings	16	dry
	CA1		square	Epoxy with a lot of sand		

Pos	First step	Next steps	Shape	Comment	Grit	Method
6	Cs06 or Cs16		square		6 or 16	dry
	PCD			High machine wear and tear		dry

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Pos	First step	Next steps	Shape	Comment	Grit	Method
7	CA1		square	Hard segment and rough diamond grit size. If the floor has to be polished better star with CA2.	16/18	dry
		Cs40	square	Like CA1 but finer diamond grit size.	40	dry
		MBC2 to MBC4	round	Metal-bond polishing up to the required finish	150 to 500	dry
		Polishing buttons grit 800 to 3000		Polymer-bond polishing up to the required finish	800 to 5000	dry

Pos	First step	Next steps	Shape	Comment	Grit	Method
8	PCD			Grinding (cutting) to expose the aggregate. High machine wear and tear		dry
		Cs16	square		16	dry
		Cs40	square		40	dry
		MBC2 to MBC4	round	Metal-bond polishing up to the required finish	150 to 500	dry
		Polishing buttons Grit 800 to 3000		Polymer-bond polishing up to the required finish	800 to 5000	dry

Pos	First step	Next steps	Shape	Comment	Grit	Method
9	PCD			Difficult grinding because of high bitumen content. High machine wear and tear		dry

Pos	First step	Next steps	Shape	Comment	Grit	Method
10	MBC1		round		40	dry
		MBC2 to MBC4	round		150 to 500	dry
		Polishing buttons Grit 60 to 5000		Polymer-bond polishing up to the required finish	60 to 5000	wet

Pos	First step	Next steps	Shape	Comment	Grit	Method
11	MBC1		round		40	dry
		MBC2 to MBC4	round		150 to 500	dry
		Polishing buttons grit 60 to 5000		Polymer-bond polishing up to the required finish. Most of the time marble will be polished to a grit size 400/800 and then crystallised	60 to 5000	wet

Pos	First step	Next steps	Shape	Comment	Grit	Method
12	MBC1		round	For Terrazzo tiles	40	dry
	Cs16 or Cs40		square	For Terrazzo screed		
		MBC2 to MBC4	round		150 to 500	dry
		Polishing buttons grit 60 to 5000		Polymer-bond polishing up to the required finish. Most of the time Terrazzo will be polished to a grit size 400/800 and then crystallised	60 to 5000	wet

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Diamond-quality	Colour	Order- No.
CA1	Brown	18-21-CA1
CA2	Green	18-21-CA2
Cs06	Red	18-21-Cs06
Cs6/16	Gold	18-21-Cs6/16
Cs16	Silver	18-21-Cs16
Cs40	Blue	18-21-Cs40
C1	Yellow	18-21-C1
C2	Purple	18-21-C2
MBC0+	Silver	18-21-MBC0+
MBC0	Brown	18-21-MBC0
MBC1	Black	18-21-MBC1
MBC2	Green	18-21-MBC2
MBC3	Blue	18-21-MBC3
MBC4	Yellow	18-21-MBC4

Polishing button Grit	Colour	Order- No.
30	Brown	18-21-30-N
60	Green	18-21-60-N
120	Black	18-21-120-N
220	Red	18-21-220-N
400	Yellow	18-21-400-N
800	White	18-21-800-N
1800	Blue	18-21-1800-N
3000	Grey	18-21-3000-N
5000	Pink	18-21-5000-N
60	Green	18-21-60-T
120	Black	18-21-120-T
220	Red	18-21-220-T
400	Yellow	18-21-400-T
800	White	18-21-800-T
1800	Blue	18-21-1800-T
3000	Grey	18-21-3000-T

4. Safety Rules for Operating the DELTA Grinder

Intended application and operation:

Grinding of flat, horizontal, dry surfaces that are typically concrete, asphalt or steel and with or without a coating. For optimum performance and compatibility always use tools supplied by CONTEC. Operation of the grinder outdoors is only permitted if the weather is dry. The DELTA II-P with Honda engine is only allowed to be operated outdoors.

Attention ! The DELTA floor grinders are constructed according to existing safety rules and regulations. These technical precautions must not be removed or changed under any circumstances. While operating the grinder the following points should also be kept in mind:

1. The floor grinder may only be operated by trained professionals. The operators have read and be familiar the contents of this manual.
2. The floor grinder must not be operated in areas where the hazard of explosion or fire exists.
3. The grinder should only be activated when the tools are lifted from the floor by the lifting device (Appendix diagram No. 63 and 65).
4. The tools and discs may be hot after use. Take care when changing them.
5. Never operate the floor grinder on a sloping surface.
6. Take care when moving the machine on a sloping surface, substantial rolling forces can be produced.
7. The hooks of a crane can only be placed in the lifting points described in the appendix „Lifting Points“.
8. The machine should always be stored in a warm, dry place when not in use.
9. The floor grinder may only be operated with the dust guard (Appendix diagram No.1).
10. Only CONTEC original tools and spare parts are to be used.

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11. The grinder should only be operated with all safety guards in position.
12. When changing tools, during transportation, cleaning, repair or maintenance the grinder must be disconnected from the mains.
13. The operator must never leave the machine unattended during operation.
14. Before leaving the machine all rotary parts must be brought to a standstill. Electric models must be disconnected from the power supply. Ensure the machine cannot roll or move by itself.
15. Never wear loose or badly fitting clothing. Flapping sleeves may be pulled into the machine causing serious injury.
16. The DELTA should be switched off immediately if unusual noises or vibrations are detected during the operating of the machinery. A thorough check must be carried out in order to detect the cause.
17. Check the power cables regularly as damage may have occurred while operating the machine. Always disconnect the cables before examination and treat all electrical parts with extreme care.
18. After any maintenance and adjustment all safety guards must be refitted.
19. Ear protectors must be worn.
20. Eye protectors must be worn.
21. Safety shoes with steel caps must be worn.
22. When operating the grinder produces large volumes of dust the grinder should be connected to a suitable dust collector.
23. Depending on the floor (floor coating) grinding can produce gases. The operator must be held responsible if the gases generated are hazardous and whether protection is necessary. Grinding floors containing asbestos is especially dangerous and can cause health problems. Special masks must be worn which keep the breathing air clean. A dust collector must be used and should be equipped with filters suitable for asbestos dust.
24. The floor must be brushed before grinding to prevent loose material collecting in the tools and then being thrown out with force. Anchor screws and bolts in the floor can also be seen better if the area is clean. If the grinding head strikes an anchor screw or bolt then serious damage can be caused to the machine and grinding head.

Special safety rules for the DELTA II-P with Honda engine

1. Only operate the machine outdoors.
2. The Honda engine turns very hot during operation. Never touch the engine. Also read the manual of the Honda engine.

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5. Operating and Grinding

Operating the DELTA has to be carried out according to the safety rules in Chapter 3.

Bring the grinder to the floor.

Connect a hose to the DELTA and to the dust collector. It is important, that the entire length of the hose has no holes and is completely air tight. Small holes or a bad connection can extremely decrease the performance

Check all the electric cables.

Connect the plug of the grinder to the socket of the extension lead. The power required is 32 A, 3 phase, 50 Hz for the DELTA II and 16 A, 3 phase, 50 Hz for the DELTA I.

Press the START button (Appendix diagram No. 121). The indicator lamp in the button comes on.

Lift the tools from the floor using the lift bar (Appendix diagram No. 63 and 65).

!

If you start the machine with the grinding tools placed on the floor you may damage the discs and/or parts of the grinder.

Starting DELTA II
Turn the motor switch (Appendix diagram No. 123) to Position 1. The motor begins to turn. Make sure that the ventilator on the topside of the motor is turning in the correct direction as indicated by the arrow. If the motor rotates in the wrong direction, turn the switch back to the O position. Press the emergency STOP button (Appendix diagram No. 125) and disconnect the plug (Appendix diagram No. 150). The plug is a reverse plug which means two phases can be swapped by inserting a screw driver in between two of the pins and twisting them round to the opposite direction. This allows the motor to turn in the correct direction.

Restart the machine again and turn the switch (Appendix diagram No. 121) to Position 1. Now lower the grinding tools slowly and carefully on to the floor using the lifting device. Grinding is now possible. Switch over to position 2 and see which speed gives the best result on the floor.

Starting DELTA I
Same procedure as DELTA II besides there is only an ON/OFF switch for one speed.

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6. Adjustments and Maintenance

6.1 Lifting Device

The Lifting device must be adjusted according to the type and individual wear and tear of the tools. The machine is lifted using a screw under the motor. The lift of the lifting device is approximately 5 cm. When the grinding tools are placed on the floor, the distance between the screw and the floor should be 2 cm. Adjust it by turning the screw in or out.

6.2 Height Adjustment of the Rear Wheel Wing

The rear wheel wing can be adjusted in two different ways to accommodate the different tools. The wing is secured to three points. Two on the frame itself and the other one to the Spindle nut. The actual height adjustment - fine and standard settings - of the grinding discs can be achieved by turning the hand wheel of the spindle. By turning the wheel the height can be set lengthways. Therefore avoiding uneven wear on the discs.

6.3 Shifting the rear wheel axis and thereby regulating the load on the discs and tools.

Different floors and different tools require different loads on the grinding discs. By shifting the rear wheel axis, this load can be altered. When the axis is fixed in the rear position, this allows the maximum load on the tools. The more forward position means less load. The rear wheel axis can be comfortably moved by loosening the two screws behind the rear wheels.

6.4 Belt tension

Loosen the four fixing screws of the motor. To do this you must remove the front belt cover and the cover behind the Spindle. By turning an M10 Nut on the rear side of the belt tensioner (metal plate underneath the motor Appendix diagram No. 101) the tension of the belt can be adjusted. The tooth belt of the DELTA II should be able to move halve a centimetre forwards and backwards half way between the pulley and the motor shaft, the V belt of the DELTA I one centimetre.

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7. Changing of the tools

Attention: Before working on the grinder bring the motor to a total stand still and disconnect from the power supply.
Attention: Tools can be hot after use.

- Tilt the machine onto the back wheels and rest it on the bar underneath the control panel.
- All brackets for segment plates (Appendix diagram No. 11) are secured to the tool brackets (Appendix diagram No. 67) by 3 Allen screws.
- By loosening the screws the discs can be removed.
- Check the grinding tool for wear or damage ready for the next application.
- Fix new tools according to the appendix „Tools“.

8. Appendix

Diagrams
Wire diagram
Tools
Part list

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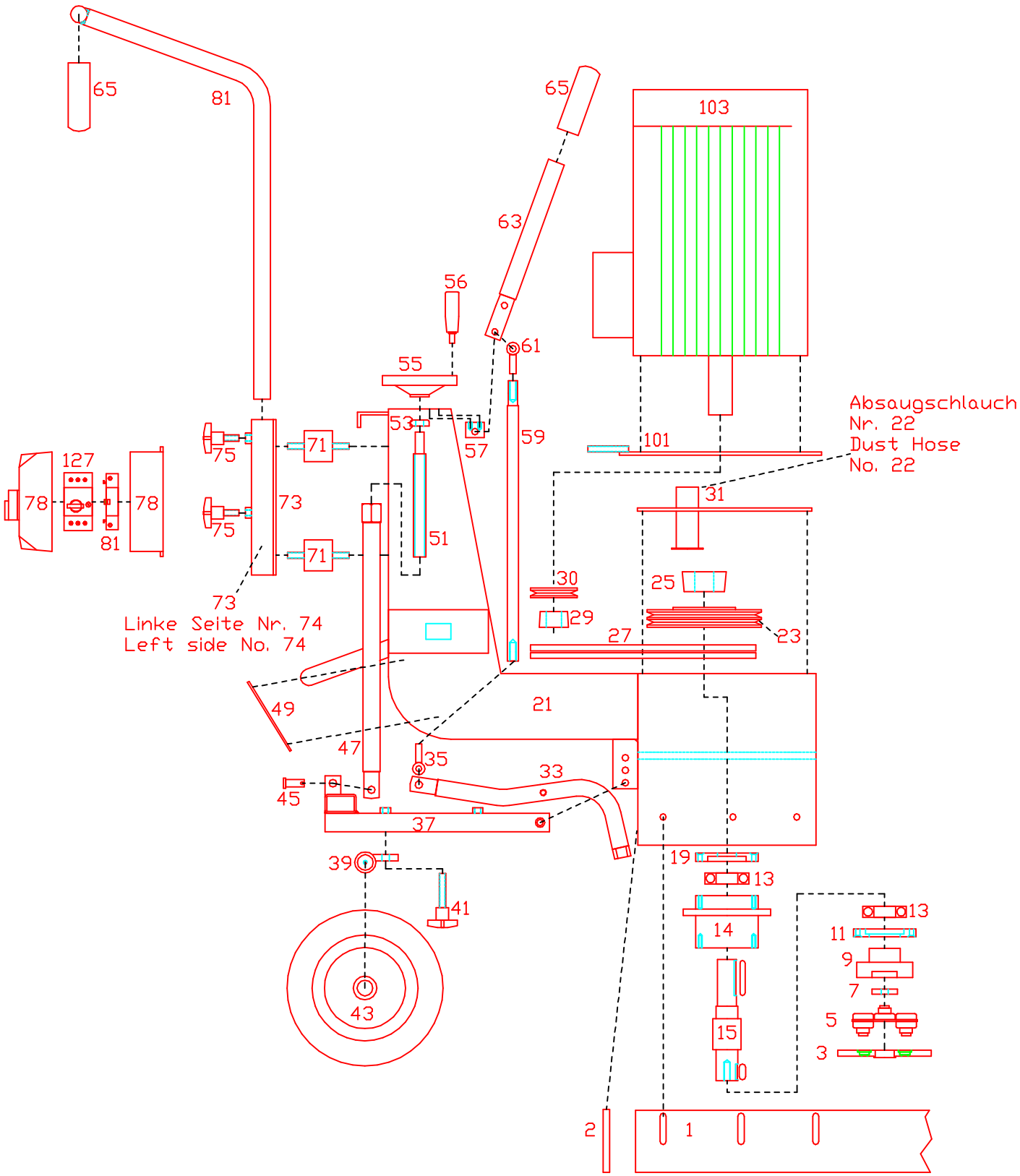
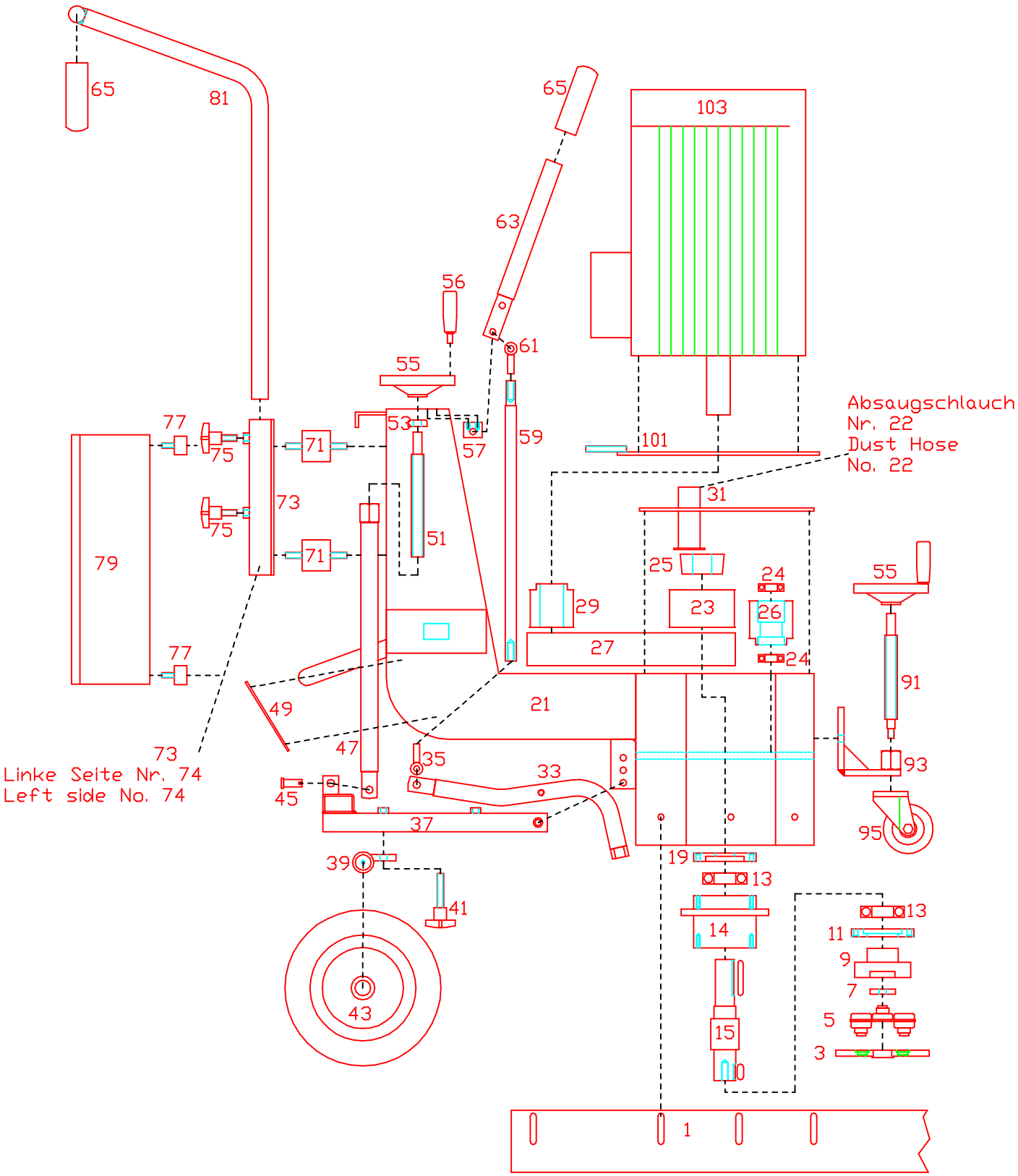
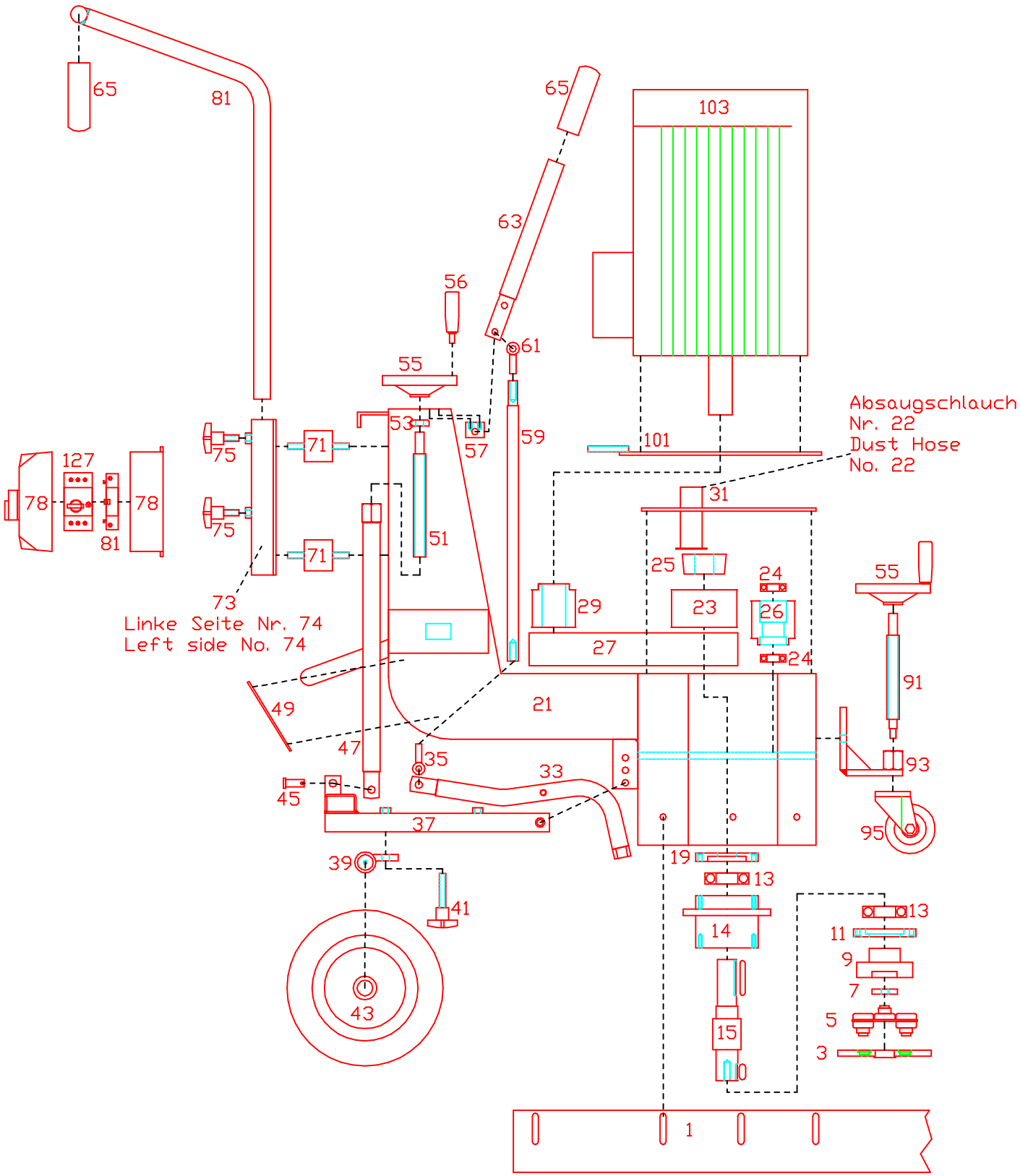
DELTA I 400 V, 50 Hz
Single Speed
(c) Contec GmbH 2003



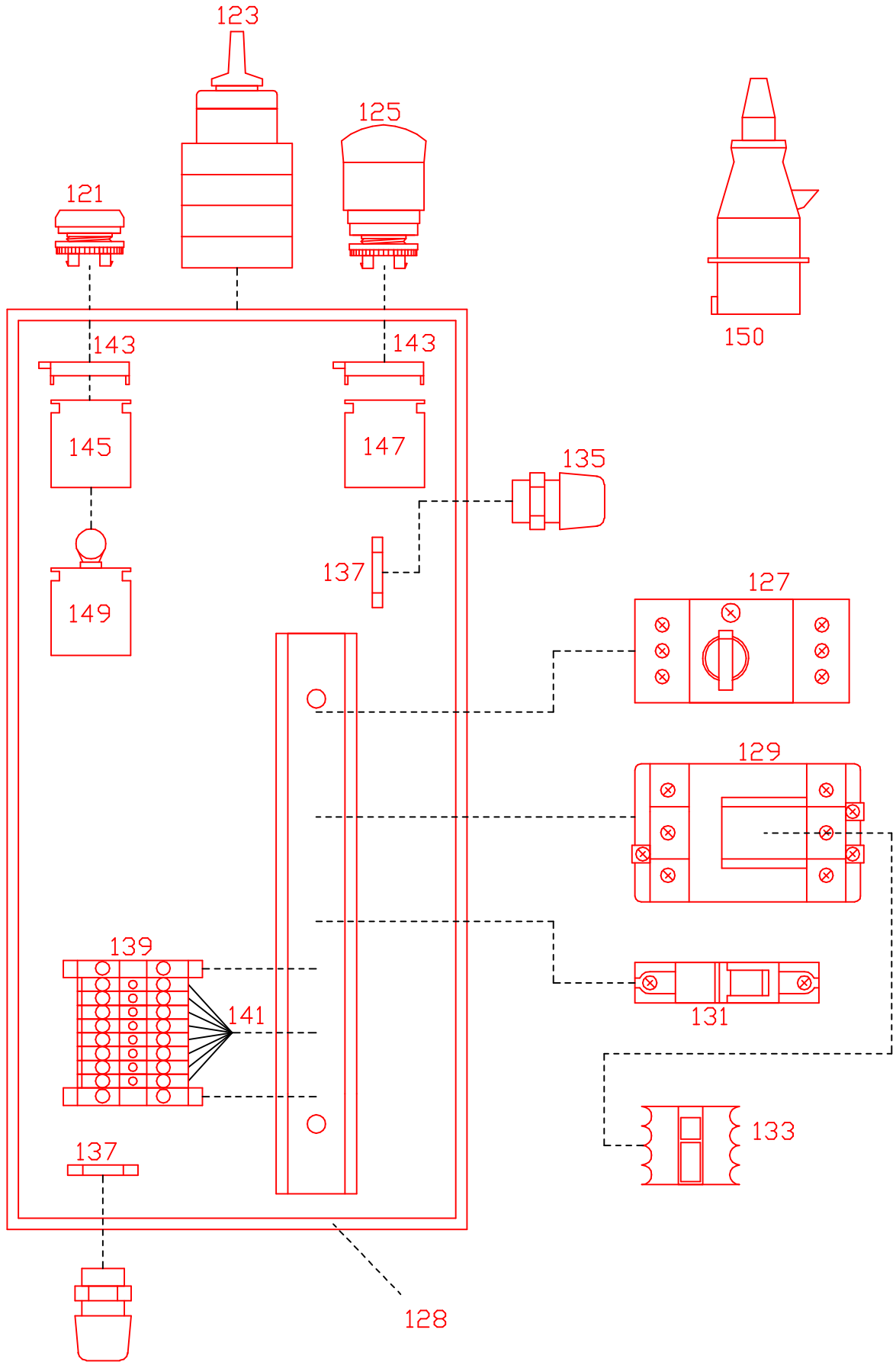
DELTA II 400 V, 50 Hz
(c) Contec GmbH 2002



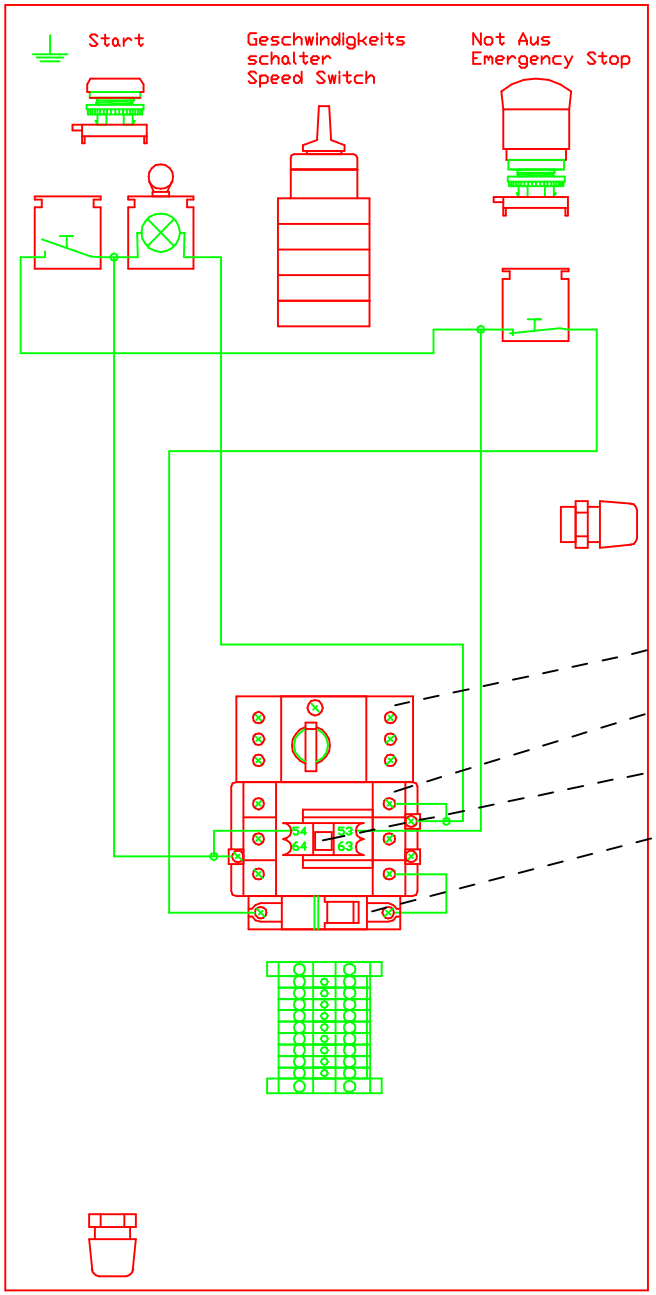
DELTA II 400 V, 50 Hz
Single Speed
(c) Contec GmbH 2002

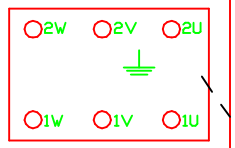


DELTA II 400 V, 50 Hz
Schaltschrank / Control panel
(c) Contec GmbH 2002



Verdrahtung Steuerung
Wire Diagram Control Circuit

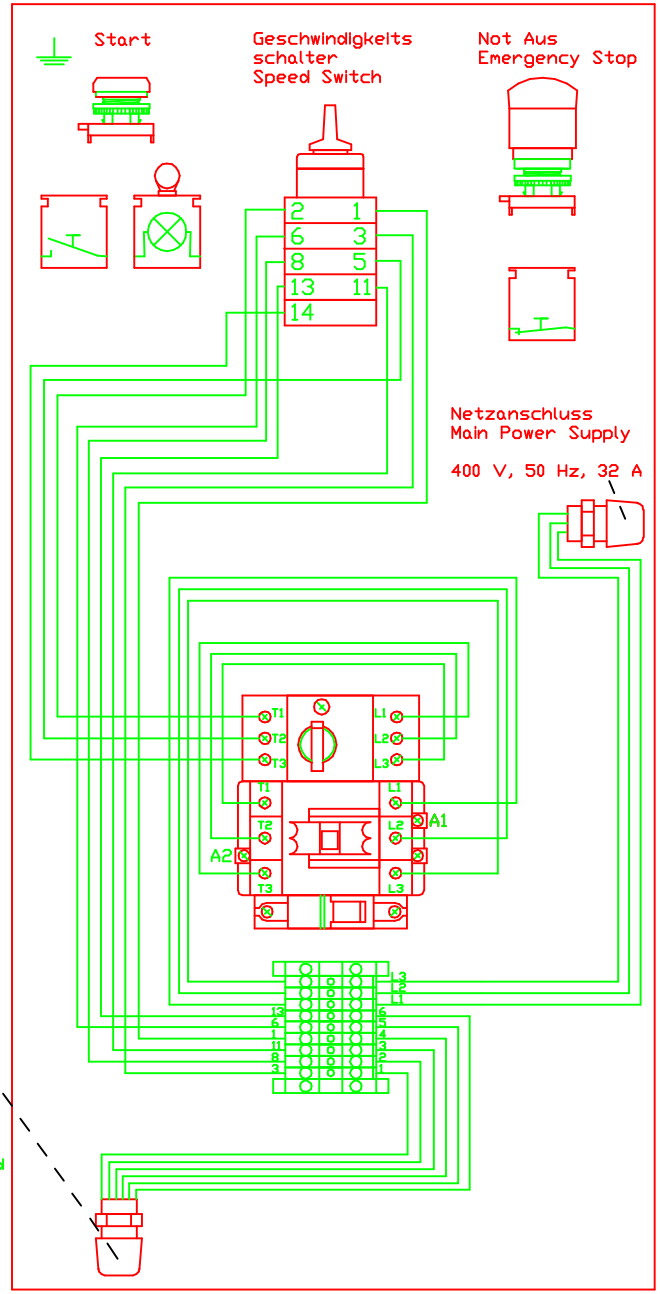




Motorklemmkasten
Motor Connection Board

1U = 1
1V = 2
1W = 3
2U = 4
2V = 5
2W = 6

Verdrahtung Motor
Wire Diagram Motor



Zust.	Änderung	Datum	Name		
		Bear.	13.11.03	Datum	
		Gepr.	Greb	Name	
		Norm			

Firma
CONTEC GmbH
57518 Alsdorf

DELTA II

(Verwendungsbereich)

(Zust.Änd.)

(Oberfl.)

(Benennung)

Verdrahtung

(Zeichnungsnummer)

(Ers.f.)

(Ers.d.)

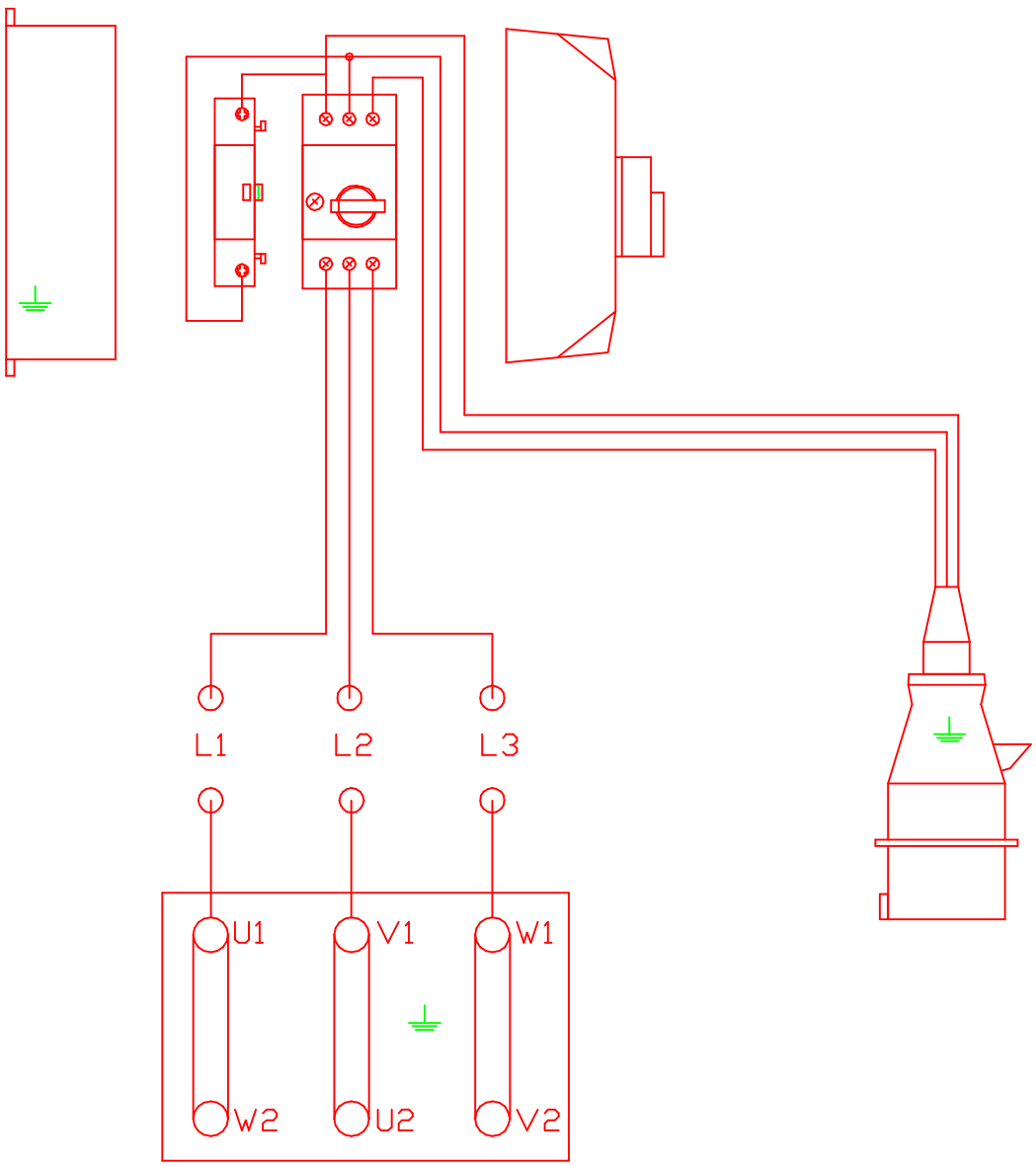
Werkstoff

Maßstab

(Gewicht)

Blatt

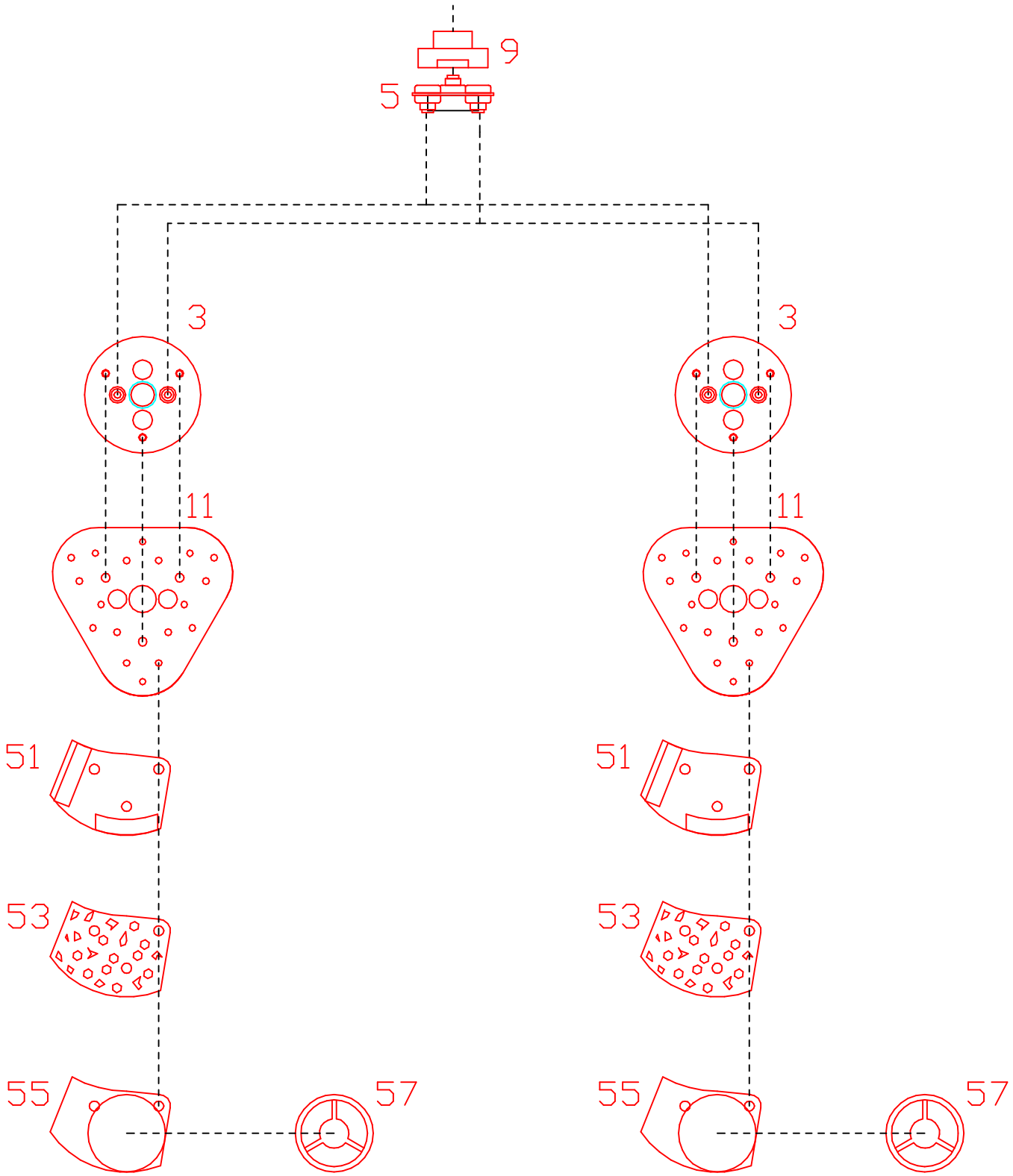
Bl.



Motorklemmkasten
Motor Connection Board

(Verwendungsbereich) DELTA II Single Speed DELTA I, 400 V, 50 Hz				(Zul.Abw.)		(Überfl.)	Masstab		(Gewicht)
							Werkstoff		
					Datum	Name	(Benennung)		
				Bear.	14.11.03	Greb	Verdrahtung		
				Gepr.					
				Norm					
				Firma CONTEC GmbH 57518 Alsdorf			(Zeichnungsnummer)		Blatt Bl.
Zust.	Änderung	Datum	Name	(Ursp.)			(Ers.f.)	(Ers.d.)	

Delta Werkzeuge
Delta Tools
Delta Outillages
(c) Contec GmbH 2004



Artikel-Nr. / Part-No.	Description 1	Description 2	Nr-No	Weight KG
70-23-14-50	Rubber Sealing Dust Guard Delta II		1	1,3
14-17-10-05	Tool Bracket Delta I+II/Omega		3	1,22
90-25-10-01	Rubber Coupling Delta I+II/Omega		5	0,5
14-10-10-06	Spacer at the Bracket for Clutch	Delta I/II	7	0,08
14-17-10-08	Bracket for coupling Delta I+II		9	0,8
14-17-10-04	Bottom lid of Bearing Housing Delta I+II		11	0,57
61-20-62-07	Bearing in the Drive Delta I+II		13	0,34
14-17-10-02	Bearing Housing Delta I+II		14	3,03
14-17-10-01	Axis Bearing Housing Delta I+II		15	1,53
14-17-10-03	Top lid of Bearing Housing Delta I+II		19	0,52
70-25-01-71	Dusthose at the Machine 70 mm Diameter	Black Colour Delta II Petrol Version	20	0,37
14-10-01-00	Machine frame Delta II		21	0
70-25-01-70	Dusthose at the Machine 70 mm Diameter	Black Colour Delta II	22	0,37
70-40-8M-50	Pulley on bearing housing		23	1,26
61-20-60-04	Bearing in reverse pulley Delta I+II		24	0,075
90-24-20-12-30	Taperlock for Pulley Bearing Housing	Delta II	25	0,65
70-26-8M-50-U	Reverse pulley Delta II		26	0,87
70-24-13-60	Belt Delta II		27	0,5
70-26-8M-50-38	Motor pulley Delta II		29	0,9
70-22-8M-50-US	Motor pulley Delta II USA Version		29	0
14-10-02-00-H	Belt Cover Petrol Delta II		31	0
14-10-02-00	Belt Cover Electric Delta II		31	0
14-10-11-10	Lift arm underneath the machine new	style	33	0,89
61-50-10-41	Eye Scrw for Quick Lever Delta bottom	one	35	0,04
14-10-07-01	Swinging arm for axis Delta II new Vers.		37	3,55
14-10-08-05	Axis DELTA II new style		39	2,25
60-30-10-50	Handle screw M10-55		41	0,06
80-52-22-50	Wheel Delta I+II with blu-grey Tire		43	2,36
60-32-20-04	Spindel screw Delta I+II		47	0,7
14-10-04-01	Lid under control panal Delta I+II		49	0,73
18-21-MBC1	Diamond Plate MBC1 Black round		51	0,26
18-21-MBC2	Diamond Plate MBC2 Green round		51	0,26
18-21-PKD-S	Diamond Plate PCD in Segment		51	0,26
18-21-MBC0+	Diamond Plate MBC0+ Silver round		51	0,26
18-21-MBC4	Diamond Plate MBC4 Yellow round		51	0,26

18-21-MBC3	Diamond Plate MBC3 Blue round		51	0,26
18-21-CA1	Diamond Plate CA1 Brown		51	0,26
18-21-C2	Diamond Plate C2 Aubergine		51	0,26
18-21-CA2	Diamond Plate CA2 Green		51	0,26
18-21-C1	Diamond Plate C1 Yellow		51	0,26
18-21-MBC0	Diamond Plate MBC0 Brown round		51	0,26
18-21-CS6/16	Diamond Plate CS6/16 Gold		51	0,26
18-21-CS40	Diamond Plate CS40 Blue		51	0,26
18-21-CS16	Diamond Plate CS16 Silver		51	0,26
18-21-CS06	Diamond Plate CS06 Red		51	0,26
18-10-05-02	Height Adjustment Screw Omega/Delta II		51	0,33
14-10-09-03	Spacer Height Control Delta/Omega		53	0,05
18-10-29-11	Plate for polishing Dotts		55	0,2
90-21-95-50	Level Adjustment Wheel Delta I+II		55	0,38
18-21-5000-N	Resignbond Wet Grid 5000 Pink		57	0,09
18-21-120-T	Resignbond Dry Grid 120 Black		57	0,09
18-21-400-N	Resignbond Wet Grid 400 Yellow		57	0,09
18-21-400-T	Resignbond Dry Grid 400 Yellow		57	0,09
18-21-60-N	Resignbond Wet Grid 60 Green		57	0,09
18-21-60-T	Resignbond Dry Grid 60 Green		57	0,09
18-21-800-N	Resignbond Wet Grid 800 White		57	0,09
18-21-220-T	Resignbond Dry Grid 220 Red		57	0,09
18-21-220-N	Resignbond Wet Grid 220 Red		57	0,09
18-21-30-N	Resignbond Wet Grid 30 Brown		57	0,09
18-21-1800-N	Resignbond Wet Grid 1800 Blue		57	0,09
18-21-3000-N	Resignbond Wet Grid 3000 Grey		57	0,09
18-21-3000-T	Resignbond Dry Grid 3000 Grey		57	0,09
18-21-1800-T	Resignbond Dry Grid 1800 Blue		57	0,09
18-21-800-T	Resignbond Dry Grid 800 White		57	0,09
18-21-30-T	Resignbond Dry Grid 30 Brown		57	0,09
18-21-120-N	Resignbond Wet Grid 120 Black		57	0,09
14-10-11-01	Bracket for Lift Pipe Delta I+II		57	0,035
90-21-95-51	Revolving Pin for Handwheel Delta		57	0,08
61-50-10-40	Eye Scrw for Quick Lever Delta Top one		61	0,04
14-10-11-02	Lift pipe at the top of the machine		63	0,54
70-21-26-10	Rubber for Handle Delta I+II		65	0,06

70-26-50-00	Vibration blocks for Handle DELTA II		71	0
14-10-05-01	Bracket for handle right side Delta I+II		73	1,3
14-10-05-00	Bracket for handle left side Delta I+II		74	1,3
60-30-10-30	Handle screw M10-25		75	0,05
70-26-30-00	Vibration blocks DELTA I		77	0,05
51-10-10-00	Switch Box For Motor Protective Single	Speed Delta I/II	78	0
14-10-06-01	Handle Delta I+II		81	4
51-20-30-03	Low Voltage Protective 400 V Delta I/II	Single Speed	81	0
18-10-08-01	Height Adjustment Screw Frontwheel	Omega/Delta	91	0,33
14-10-13-01	Front Wheel Bracket only Delta II		93	2,5
80-20-62-80	Frontwheel Omega/Delta		95	0,77
14-10-03-01-H	Belt tensioner Delta II for Honda Petrol	Motor	101	13
14-10-03-01	Belt tensioner Delta I+II		101	1,95
14-10-03-01-US	Belt tensioner Delta II for Baldor Motor	10 HP US	101	4,4
56-GXV-11	Motor 11 HP for Delta II		103	0
50-20-20-75	Motor DELTA II 7,5 KVA, 400 Volt	Single Speed	103	0
50-20-68-80	Motor Delta II 6,8/8 KVA, 400 Volt		103	72
50-22-68-80	Motor Delta II 6,8/8 KVA, 200 Volt	3 Phase Japan	103	72
56-GXV-99	Lever for Petrol Engine Delta/Omega		105	0,2
51-20-21-04	Dalander-Switch Delta II+I		123	0
50-20-23-01	Emergency Switch Delta II new Version	Mai 2003	125	0
51-20-30-01	Motor Protective Delta II, 6,8/8 KW,	400 Volt	127	0
50-10-10-100	Control Panel only Frame Delta II	with all holes	128	0
51-20-32-04	Main Contactor Delta I+II		129	0
51-20-31-05	Main Contactor Delta II US Version	Baldor 10 HP Motor	129	0
50-20-30-03	Circuit Breaker Control C2 Delta II		131	0
50-20-23-02	Start Button Delta II new Version	2003	131	0
50-20-23-09	Mounting Adapter for Switches Delta I/II	new Version Mai 2003	143	0
50-20-33-07	Contact Element K10 Delta I/II new	Version Mai 2003	145	0
50-20-33-08	Contact Element M22-K01 Delta I/II	new Version Mai 2003	147	0
50-20-20-15	Reverse Plug 32 A, 400 Volt Delta II		150	0
14-10-01-99	Conversion Kit for Delta II from two to	one Handwheel		0
18-21-36-T0	Diamond Disk Silver 12 Segments Omega	very hard Concrete		6
14-10-29-01	Bracket for Tungston Disk Delta			3,29
14-10-29-02	Bracket for Carborundum Disk Delta			3,29
14-10-29-03	Bracket for Carborundum Disk Delta			3,29

14-10-50-03	Bracket for Polishing Tools Delta II			0
14-21-30-T0	Diamont Disk Silver 12 Segments Delta	Hydrit Floor, very hard Concrete		3,67
14-16-29-01	Tungston Ring rough Delta			1,46
14-16-29-02	Tungston Ring fine Delta			1,25
14-16-50-04				1,1
14-20-99-00	Diamont Disk Blue 20 Segments Asuga	Standard concrete		4,2
14-20-99-01	Diamont Disk Red 20 Segments Asuga	epoxy and PU Floors		0
14-20-99-16	Diamont Disk Red 16 Segments Asuga	epoxy and PU Floors		0
14-21-30-H	Diamont Disk Brown 12 Segments Delta	Agressive concrete		3,67
14-21-36-T0	Diamont Disk Silver 6 Segments Delta	Hydrit Floor, very hard Concrete Asphalt		3,67
14-21-6W	Diamont Disk Red 12 Segments Delta	Epoxy / Glue		3,67
14-21-GB-1	Diamont Disk Aubergine 12 Segments	Terazzo Delta Rough Grade		3,67
14-21-GB-2	Diamont Disk Orange 12 Segments Terazzo	Delta Fine Grade		3,67
14-21-GB-3	Diamont Disk White 12 Segments Delta	Fine finish Polishing		3,67
14-21-MBC-120	Diamont Disk Black 12 Segments	Terazzo Delta Fine Grade		3,67
14-21-30-00	Diamont Disk Blue 12 Segments Delta	Standard concrete		3,67
90-09-SW-6	Allenwrensch 6 mm Omega/Delta			60
90-09-SW-5	Allenwrensch 5 mm Omega/Delta			40
70-23-14-50-H	Rubber Sealing Dust Guard Delta II	for Flails		1,6
18-10-11-00	Extra weight 6 KG for Omega/Delta			6
14-10-14-00				1,52
14-10-11-03	Lift arm underneath the machine old	style		0
14-10-29-05	Grinder Head for Flails Delta II round	type with 6 Blocks		0
14-10-29-06	Bracket disc Plates Delta			2,1
14-10-13-00	Front Wheel for Grinder Head Delta II			2,5
14-10-08-00	Axis DELTA II old style			0
14-13-11-03	Lifting rod Delta I+II			840
14-17-10-00	Bearing Housing complete Delta I+II			6,3
14-13-07-01	Swinging arm for axis old Version	Stainless steel pipe.		0
70-24-13-60 30 mm	Belt Delta II, 30 mm			300
70-24-14-40 30mm				350
50-10-10-40	Control panal DELTA II			0
50-20-20-06	Label Mount (Start) 111 Delta II			0
50-20-30-061	Switch with Lamp complete Delta II			0
50-20-68-82	Motor Delta II 6,8/8 KVA, 400 Volt			72
50-20-68-81	Motor Delta II 6,8/8 KVA, 400 Volt			72

50-20-20-02-N				0